

GIS REGISTRY INFORMATION

SITE NAME:

Tomahawk Sand & Gravel

BRRTS #:

03-35-110597 FID # (if appropriate):

COMMERCE # (if appropriate):

54487-1232-07

CLOSURE DATE:

1/13/05

STREET ADDRESS:

407. S. Tomahawk Ave

CITY:

Tomahawk

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):

X= 540977 Y= 554738

CONTAMINATED MEDIA:

Groundwater

☐

Soil

☐

Both

☒

OFF-SOURCE GW CONTAMINATION >ES:

☐ Yes

☒ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection):

X= _____ Y= _____

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):

☐ Yes

☒ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection):

X= _____ Y= _____

CONTAMINATION IN RIGHT OF WAY:

☒ Yes

☐ No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter issued

Copy of most recent deed, including legal description, for all affected properties

Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties
County Parcel ID number, if used for county, for all affected properties

286-3406-031-0018

Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.

Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.

Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)

Tables of Latest Soil Analytical Results (no shading or cross-hatching)

Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.

GW: Table of water level elevations, with sampling dates, and free product noted if present

GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)

SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour

Geologic cross-sections, if required for SI. (8.5x14" if paper copy)

RP certified statement that legal descriptions are complete and accurate

Copies of off-source notification letters (if applicable)

Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)

Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure





State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdziński, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

January 13, 2005

Mr. Chris Winger
Tomahawk Sand & Gravel
407 S Tomahawk Ave
Tomahawk, WI 54487

SUBJECT: Final Case Closure By Closure Committee
Tomahawk Sand & Gravel, 407 S Tomahawk Ave, Tomahawk, WI
WDNR BRRTS #:03-35-110597
PECFA # 54487-1232-07

Dear Mr. Winger:

On December 9, 2004, your site as described above was reviewed for closure by the Northern Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On December 15, 2004, you were notified that the Closure Committee had granted conditional closure to this case.

On January 13, 2005, the Department received correspondence indicating that you have complied with the conditions of closure, specifically, documentation of the abandonment of the monitoring wells on site. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>. If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at the web address listed above.

If this is a PECFA site, section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims

not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

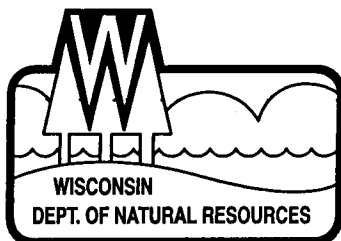
Sincerely,
NORTHERN REGION

A handwritten signature in cursive script that reads "Janet Kazda".

Janet Kazda
Remediation & Redevelopment Program

cc: File
John Sager, Antigo

Brenda Halminiak
Sand Creek Consultants, Inc
PO Box 1512
Rhineland, WI 54501



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
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Northern Region Headquarters
107 Sutliff Ave.
Rhineland, Wisconsin 54501-3349
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December 15, 2004

Mr. Chris Winger
Tomahawk Sand & Gravel
407 S Tomahawk Ave
Tomahawk, WI 54487

Subject: Tomahawk Sand & Gravel, 407 S Tomahawk Ave, Tomahawk, WI
BRRTS # 03-35-110597
PECFA# 54487-1232-07

Dear Mr. Winger:

On December 9, 2004, your request for closure of the case described above was reviewed by the Northern Region Closure Committee. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the petroleum contamination on the site appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

1. The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw/ or provided by the Department of Natural Resources.
2. Please ask your consultant to provide a diagram of the latest horizontal extent of soil contamination exceeding generic or site-specific residual contaminant levels with one contour.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>.

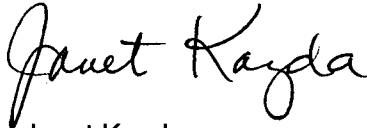
If this is a PECFA site, section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

If you have questions, please call me at 715-365-8990.

Sincerely,
NORTHERN REGION

A handwritten signature in cursive script that reads "Janet Kazda".

Janet Kazda
Remediation and Redevelopment Program

C: File
John Sager, Antigo

Brenda Halminiak
Sand Creek Consultants, Inc
PO Box 1512
Rhineland, WI 54501

WARRANTY DEED

....., Grantee,
Witnesseth, That the said Grantor, for a valuable consideration.....
conveys to Grantee the following described real estate in Lincoln
County, State of Wisconsin:

Received for Record the 11
day of APR A. D. 1985
3:00 o'clock P M. and Recorded in
Vol. 405 of RECORDS on page 765
Glenn Hubbard
REGISTER OF DEEDS

RETURN TO L.C.A.C.O.

Tax Parcel No:

SEE ATTACHED FOR DESCRIPTION

TRANSFER

\$ 780.00
FEB

This is not homestead property.
(is not)

Together with all and singular the hereditaments and appurtenances thereunto belonging;
And Tomahawk Sand and Gravel Company, Inc., a Wisconsin Corporation
warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except
easements of record noted on Title Policy Commitment LI 1276

and will warrant and defend the same.

Dated this 11th day of April, 1985
 Tombawak Sand and Gravel Company, Inc.

BY: Gene Heikkinen (SEAL) _____ (SEAL)
Gene Heikkinen, President .
Donna Ruka, Sec (SEAL) _____ (SEAL)
Donna Ruka, Secretary .

73
AUTHENTICATION
 Tomahawk Sand and
 Gravel Company, Inc. by
 Gene Heikkinen, President and
 Donna Ruka, Secretary
 authenticated this 11th day of April, 1985
Francis U. Seroogy
 • Francis U. Seroogy
 TITLE: MEMBER STATE BAR OF WISCONSIN
 (If not,
 authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Francis U. Seroogy of

SEROOGY & REIFF, ATTYS.

(Signatures may be authenticated or acknowledged. Both are not necessary.)

Per description provided

*Names of persons signing in any capacity should be typed or printed below their signatures.

ACKNOWLEDGMENT

STATE OF WISCONSIN

\$3.

.....County.)
Personally came before me thisday of
....., 19..... the above named

to me known to be the person who executed the foregoing instrument and acknowledge the same.

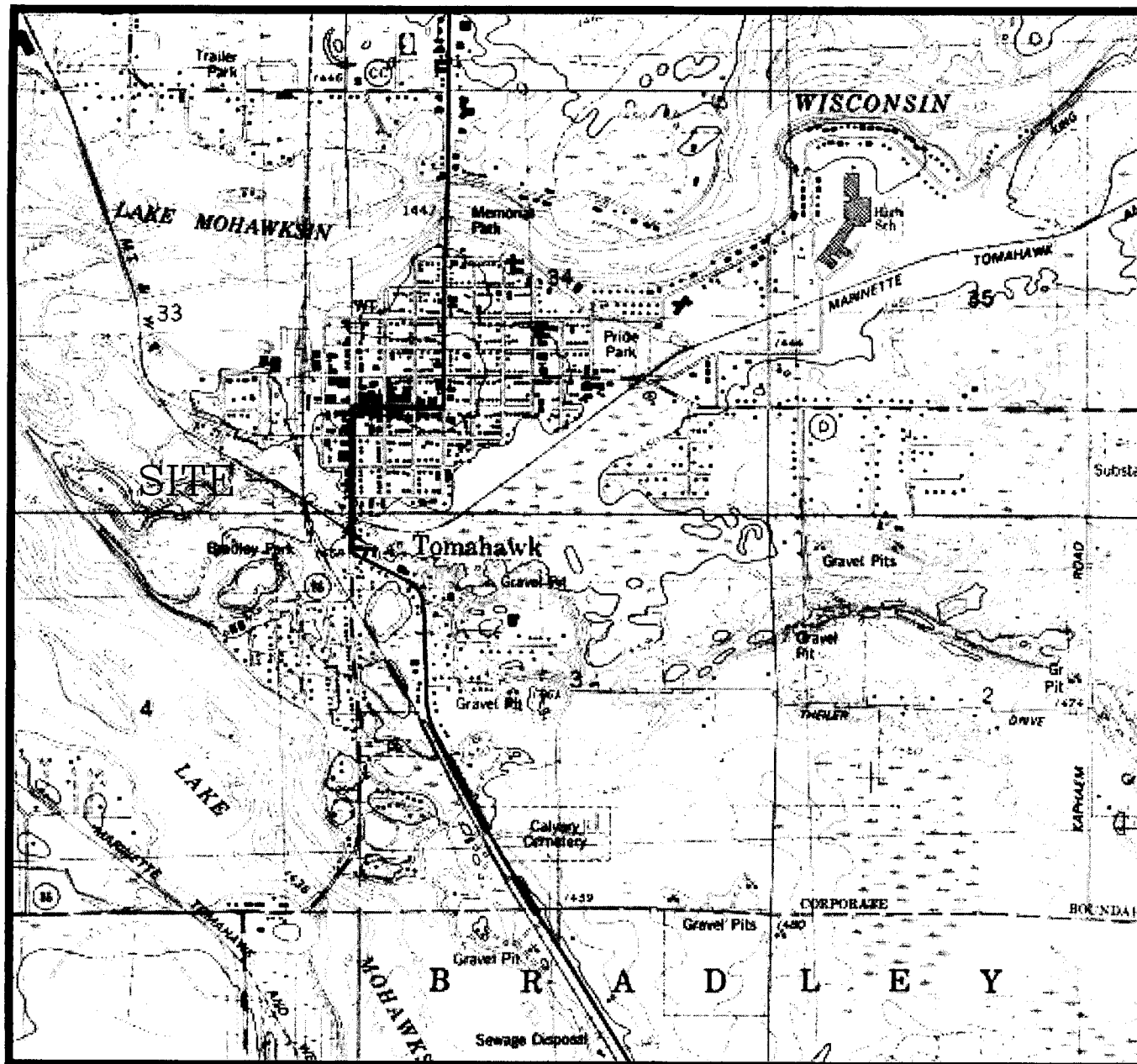
Notary Public County, Wis.
My Commission is permanent. (If not, state expiration
date:, 19.....)

TOMAHAWK/WINGER - TOMAHAWK SAND & GRAVEL COMPANY, INC.

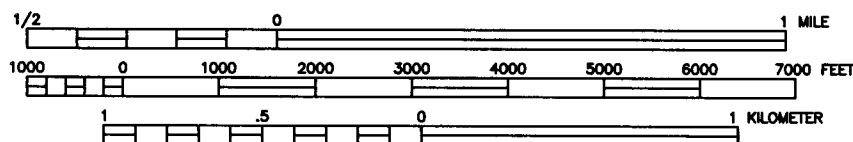
PARCEL 1

All that part of the Northwest Quarter of the Northwest Quarter (NW1/4 NW1/4), Section Three (3), Township Thirty-four (34) North, Range Six (6) East, containing parts of Assessor Plat Lots Numbered 135, 138 and 201 of the Assessor's Plat of the City of Tomahawk lying South of the right-of-way of the Marinette, Tomahawk and Western Railroad and North and East of the following described reference line:

Commencing at a point on the East boundary line of South Tomahawk Avenue 80 feet north of the Northwest corner of A.P. Lot 137 of the Assessor's Plat of the City of Tomahawk; (Also being the Northwest corner of parcel described in Volume 195 of Deeds, page 573) which is the place of beginning of the above mentioned reference line; thence S.72° E., 157.72 feet to a point (being the NE corner of parcel described in 195 D 573); thence S.72°20'E., 67.00 feet to an iron pipe; thence S.12°30'00"W., 156.82 feet along the east line of parcel described in 257 D 418 to an iron pipe; thence N.89°06'09"E., 73.98 feet to an iron pipe; thence S.00°31'20"W., along the west line of A.P. Lot 135 a distance of 219.90 feet to the Northerly right-of-way of U.S. Highway 51 to an iron pipe; thence S. 63°18'09"E, along said right of way of U.S. Highway 51 to an iron stake; thence North parallel to the east line of A.P. Lot 138, 33.90 feet to an iron stake; thence S.88°01'42"E, 152.08 feet to an iron pipe; thence N.01°17'36"E., 86.00 feet to an iron pipe; thence S.76°42'19"E, 185.00 feet to an iron pipe; thence S.00°40'51"W. 49.68 feet to an iron pipe and the south line of A.P. Lot 201; thence S.89°51'04"E, along said south line of A.P. Lot 201, 397.34 feet to an iron pipe and the NW corner of A.P. Lot 142; thence continuing along said north line of A.P. Lot 142 to the East line of said A.P. Lot 201 and the East line of said NW1/4 NW1/4, 3-34-6E., and the termination of the reference line used herein as the southerly boundary line of the parcel being described.



SCALE
1:24000



CONTOUR INTERVAL 10 FEET



(USGS 1982)
TOMAHAWK QUADRANGLE



LOCATION



ENVIROGEN

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

2835 North Grandview Blvd.
Pewaukee, Wisconsin 53072-0090

SITE LOCATION

MAP

TOMAHAWK SAND AND GRAVEL

TOMAHAWK, WISCONSIN

FIGURE NO.

1

DRAWING NO. 960525TOPO

DRAWN BY: PJT

CHECKED BY:

APPROVED BY:

REVISIONS:

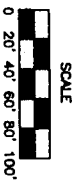
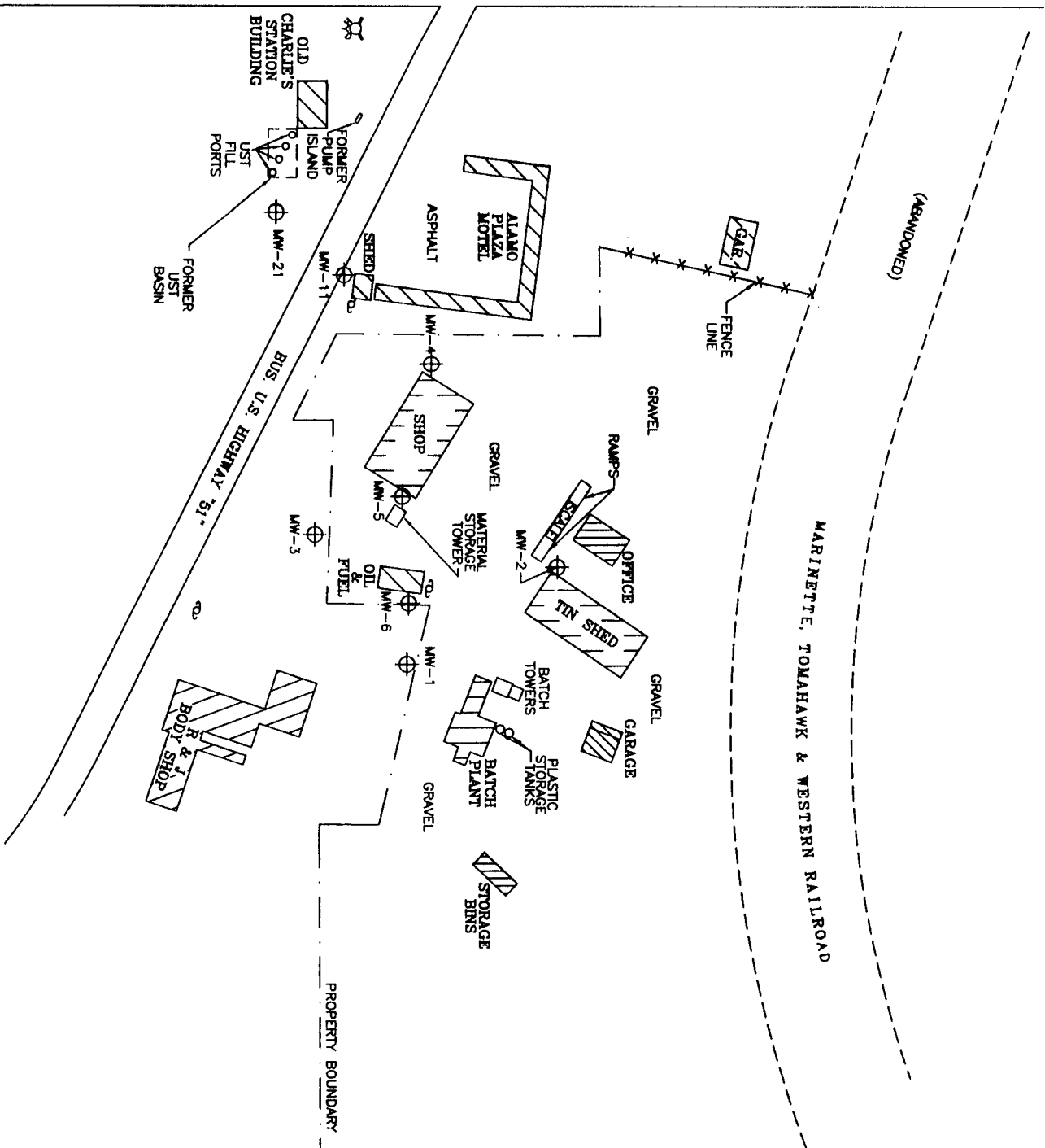
ENGINEER DATE

ENGINEER

DATE

STATE ROAD "86"

SOUTH TOMAHAWK AVENUE



- LEGEND
- ⊕ MONITORING WELL
 - ⊗ FIRE HYDRANT
 - ⊙ UTILITY POLE

N



ENVIROGEN
Cost Effective Leadership For A Cleaner Environment
650 Hwy 153 Suite F
Madison, Wisconsin 53445

SITE PLAN VIEW

TOMAHAWK SAND AND GRAVEL SITE

TOMAHAWK, WISCONSIN

PLATE NO.

2

DRAWING NO.	96.525L2	DRAWN BY:	KFT	01/25/02	CHECKED BY:		APPROVED BY:		REVISIONS:	ENGINEER	DATE	ENGINEER	DATE
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Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-1
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	ND	ND	ND	ND	ND	ND	None	None
Benzene	ND	ND	ND	ND	ND	ND	0.5	5
Toluene	ND	ND	ND	ND	ND	ND	200	1,000
Ethylbenzene	ND	ND	ND	ND	ND	ND	140	700
Total Xylenes (calculated)	ND	ND	ND	ND	ND	ND	1,000	10,000
M/P Xylene	ND	ND	ND	ND	ND	ND	None	None
Styrene / O-xylene	ND	ND	ND	ND	ND	ND	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
1,3,5 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
Total Trimethylbenzenes	ND	ND	ND	ND	ND	ND	96	480

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-2
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	ND	ND	ND	ND	ND	ND	None	None
Benzene	ND	ND	ND	ND	ND	ND	0.5	5
Toluene	ND	ND	ND	ND	ND	ND	200	1,000
Ethylbenzene	ND	ND	ND	ND	ND	ND	140	700
Total Xylenes (calculated)	ND	ND	ND	ND	ND	ND	1,000	10,000
M/P Xylene	ND	ND	ND	ND	ND	ND	None	None
Styrene / O-xylene	ND	ND	ND	ND	ND	ND	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
1,3,5 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
Total Trimethylbenzenes	ND	ND	ND	ND	ND	ND	96	480

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-3
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	na	120	130	220	ND	65	None	None
Benzene	na	ND	ND	ND	ND	ND	0.5	5
Toluene	na	ND	ND	ND	ND	ND	200	1,000
Ethylbenzene	na	2.9	0.63	ND	ND	1.1	140	700
Total Xylenes (calculated)	na	4.0	0.98	ND	ND	1.4	1,000	10,000
M/P Xylene	na	4.0	0.98	ND	ND	1.4	None	None
Styrene / O-xylene	na	ND	ND	ND	ND	ND	10	100
MTBE	na	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	na	1.0	ND	ND	ND	1.1	None	None
1,3,5 Trimethylbenzene	na	ND	ND	ND	ND	ND	None	None
Total Trimethylbenzenes	na	1.0	ND	ND	ND	1.1	96	480

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-4
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	310	140	170	130	150	77	None	None
Benzene	0.31	ND	0.65	ND	0.79	0.59	0.5	5
Toluene	0.52	ND	ND	ND	ND	ND	200	1,000
Ethylbenzene	2.8	0.59	ND	ND	0.73	ND	140	700
Total Xylenes (calculated)	6.8	1.2	0.83	0.66	2.06	ND	1,000	10,000
M/P Xylene	2.8	ND	ND	ND	1.3	ND	None	None
Styrene / O-xylene	4.0	1.2	0.83	0.66	0.76	ND	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	3.9	1.2	1.1	0.58	0.86	ND	None	None
1,3,5 Trimethylbenzene	2.2	ND	0.47	ND	ND	ND	None	None
Total Trimethylbenzenes	6.1	1.2	1.57	0.58	0.86	ND	96	480
PAHs								
1-Methylnaphthalene	20	3.6	15	ND	ND	ND	None	None
2-Methylnaphthalene	ND	ND	13	ND	ND	ND	None	None
Fluoranthene	67	23	110	11	1.4	2.9	80	400
Phenanthrene	18	2.5	32	2.7	ND	0.89	None	None
Acenaphthylene	2.6	ND	ND	ND	ND	0.47	None	None
Acenaphthene	ND	ND	13	ND	ND	ND	None	None
Anthracene	ND	ND	1.6	ND	ND	ND	600	3000
Fluorene	ND	ND	16	ND	ND	1.4	80	400
Pyrene	ND	76	ND	ND	ND	12	50	250

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-5
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	500	570	400	510	580	880	None	None
Benzene	38	40	30	19	42	110	0.5	5
Toluene	9.2	1.5	ND	1.2	1.7	4.0	200	1,000
Ethylbenzene	61	50	7.9	ND	12	56	140	700
Total Xylenes (calculated)	31.6	25.9	ND	ND	19.5	46.6	1,000	10,000
M/P Xylene	25	21	ND	ND	11	38	None	None
Styrene / O-xylene	6.6	4.9	ND	ND	8.5	8.6	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	7.1	8.8	ND	0.76	6.5	26	None	None
1,3,5 Trimethylbenzene	1.2	1.1	ND	ND	3.5	8.8	None	None
Total Trimethylbenzenes	8.3	9.9	ND	0.76	10.0	34.4	96	480

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-6
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION		
na	Not analyzed	
ND	Not detected w/ MDL <NR 140 ES	
<1,000	< MDL: Not detected w/ MDL >NR 140 ES	
3	Exceeds NR 140 PAL	
40	Exceeds NR 140 ES	

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	2,000	2,200	2,700	3,300	2,100	3,100	None	None
Benzene	13	7.9	5.1	7.4	11	5.8	0.5	5
Toluene	19	23	17	17	20	18	200	1,000
Ethylbenzene	65	49	37	51	58	48	140	700
Total Xylenes	168	204	175	ND	152	171	1,000	10,000
m & p-Xylene	110	120	97	ND	100	96	None	None
o-Xylene	58	84	78	ND	52	75	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4-Trimethylbenzene	110	120	180	4.4	100	160	None	None
1,3,5-Trimethylbenzene	50	65	67	67	52	61	None	None
Total Trimethylbenzenes	160	185	247	71.4	152	221	96	480
PAHs								
1-Methylnaphthalene	140	3,500	1800	1800	360	1,100	None	None
2-Methylnaphthalene	180	5,600	3300	2800	460	1,400	None	None
Fluoranthene	78	3,900	3600	2700	400	1,200	80	400
Fluorene	24	890	730	510	83	260	80	400
Acenaphthene	ND	990	700	ND	ND	ND	None	None
Acenaphthylene	ND	430	ND	ND	ND	ND	None	None
Naphthalene	ND	890	ND	480	ND	ND	8	40
Phenanthrene	ND	1,900	1400	1100	150	440	None	None
Pyrene	ND	12,000	ND	ND	ND	4,500	50	250
Anthracene	ND	ND	48	ND	ND	ND	600	3000

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-11
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	820	240	470	na	490	120	None	None
Benzene	ND	ND	ND	na	ND	ND	0.5	5
Toluene	ND	ND	ND	na	ND	ND	200	1,000
Ethylbenzene	ND	ND	ND	na	ND	ND	140	700
Total Xylenes (calculated)	1.1	ND	ND	na	1.1	ND	1,000	10,000
M/P Xylene	ND	ND	ND	na	1.1	ND	None	None
Styrene / O-xylene	1.1	ND	ND	na	ND	ND	10	100
MTBE	ND	ND	ND	na	ND	ND	12	60
1,2,4 Trimethylbenzene	6.1	0.75	3.0	na	3.2	ND	None	None
1,3,5 Trimethylbenzene	7.1	2.5	7.4	na	3.0	ND	None	None
Total Trimethylbenzenes	13.2	3.25	10.4	na	6.2	ND	96	480
PAHs								
1-Methylnaphthalene	270	32	60	na	53	ND	None	None
2-Methylnaphthalene	ND	ND	50	na	ND	ND	None	None
Acenaphthene	180	22	52	na	ND	ND	None	None
Fluoranthene	1,900	170	410	na	240	92	80	400
Fluorene	260	30	69	na	ND	19	80	400
Phenanthrene	610	59	150	na	81	36	None	None
Pyrene	5,100	540	ND	na	ND	340	50	250
Anthracene	ND	ND	5.0	na	ND	ND	600	3000

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	MW-21
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	ND	ND	ND	ND	ND	ND	None	None
Benzene	ND	ND	ND	ND	ND	ND	0.5	5
Toluene	ND	ND	ND	ND	ND	ND	200	1,000
Ethylbenzene	ND	ND	ND	ND	ND	ND	140	700
Total Xylenes (calculated)	ND	ND	ND	ND	ND	ND	1,000	10,000
M/P Xylene	ND	ND	ND	ND	ND	ND	None	None
Styrene / O-xylene	ND	ND	ND	ND	ND	ND	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
1,3,5 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
Total Trimethylbenzenes	ND	ND	ND	ND	ND	ND	96	480

Table 3:
Post-Remedial Ground Water Monitoring Summary

Well Name (s)	PZ-1
Site Name, City	Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI
BRRTS / PECFA	03-35-110597/54487-1232-07
Table Units	ug/l (ppb)
Path	

TABLE EXPLANATION	
na	Not analyzed
ND	Not detected w/ MDL <NR 140 ES
<1,000	< MDL: Not detected w/ MDL >NR 140 ES
3	Exceeds NR 140 PAL
40	Exceeds NR 140 ES

MONTH / YEAR SAMPLED	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	PAL	ES
GRO	na	ND	ND	ND	na	ND	None	None
DRO	150	na	na	na	na	na	None	None
Benzene	ND	ND	ND	ND	ND	ND	0.5	5
Toluene	ND	ND	ND	ND	ND	ND	200	1,000
Ethylbenzene	ND	ND	ND	ND	ND	ND	140	700
Total Xylenes (calculated)	ND	ND	ND	ND	ND	ND	1,000	10,000
M/P Xylene	ND	ND	ND	ND	ND	ND	None	None
Styrene / O-xylene	ND	ND	ND	ND	ND	ND	10	100
MTBE	ND	ND	ND	ND	ND	ND	12	60
1,2,4 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
1,3,5 Trimethylbenzene	ND	ND	ND	ND	ND	ND	None	None
Total Trimethylbenzenes	ND	ND	ND	ND	ND	ND	96	480
Naphthalene	ND	na	na	na	na	na	8	40

Table 3:
Post-Remedial Ground Water Monitoring Summary

**Natural Attenuation Parameters
Tomahawk Sand & Gravel**

		MW-1					
	Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04
Water temp (deg C)		6.8	7.3	10		6.5	9.0
Dissolved Oxygen (mg/L)		1.4	3.62	1.35		5.05	2.54
Conductivity (uS/cm)		227.9	285.3	369.1		188.4	306.6
Salinity (ppt)		0.1	0.1	0.2		0.1	0.1
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

		MW-2					
	Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04
Water temp (deg C)		1.8	14.7	12.4		6.7	15.7
Dissolved Oxygen (mg/L)		6.56	2.31	1.24		5.21	0.30
Conductivity (uS/cm)		1err	461.2	374.8		457.2	529
Salinity (ppt)		0.2	0.2	0.2		0.2	0.3
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

		MW-3					
	Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04
Water temp (deg C)			11.5	9.8		3.8	11.6
Dissolved Oxygen (mg/L)			4.84	2.56		12.74	5.67
Conductivity (uS/cm)			336.2	277.5		230.4	581
Salinity (ppt)			0.2	0.1		0.1	0.3
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

Table 3:
Post-Remedial Ground Water Monitoring Summary

Natural Attenuation Parameters (continued)
Tomahawk Sand & Gravel

		MW-4					
	Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04
Water temp (deg C)			11.8	11.6		7.4	12.4
Dissolved Oxygen (mg/L)			0.01	0.08		0.19	0.02
Conductivity (uS/cm)			355.8	355.5		358.5	379.7
Salinity (ppt)			0.2	0.2		0.2	0.2
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

		MW-5					
	Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04
Water temp (deg C)		5.7	12.2	12.4		7.3	13.8
Dissolved Oxygen (mg/L)		3.66	4.28	1.89		6.51	0.25
Conductivity (uS/cm)		214.0	220.2	227.4		260.0	240.5
Salinity (ppt)		0.1	0.1	0.1		0.1	0.1
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

		MW-6					
	Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04
Water temp (deg C)							
Dissolved Oxygen (mg/L)							
Conductivity (uS/cm)							
Salinity (ppt)							
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

Table 3:
Post-Remedial Ground Water Monitoring Summary

Natural Attenuation Parameters (continued)
Tomahawk Sand & Gravel

		MW-11					
Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	
Water temp (deg C)							
Dissolved Oxygen (mg/L)							
Conductivity (uS/cm)							
Salinity (ppt)							
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

		MW21					
Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	
Water temp (deg C)	9.6	9.1	9.9		9.5	9.7	
Dissolved Oxygen (mg/L)	3.85	3.12	3.18		6.97	6.89	
Conductivity (uS/cm)	539	506	520		554	542	
Salinity (ppt)	0.3	0.2	0.3		0.3	0.3	
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

		PZ-1					
Date	Apr-03	Jul-03	Nov-03	Feb-04	May-04	Aug-04	
Water temp (deg C)	9.9	9.4	10.0		9.6	9.5	
Dissolved Oxygen (mg/L)	0.16	4.55	1.24		5.18	3.32	
Conductivity (uS/cm)	257.5	253.3	215.0		207.5	204.5	
Salinity (ppt)	0.1	0.1	0.1		0.1	0.1	
Nitrate (mg/L)							
Sulfate (mg/L)							
Dissolved Iron (ug/L)							
Methane (ug/L)							

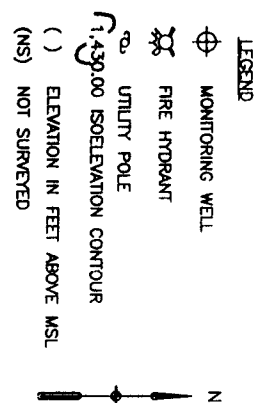
Table 2:
PZ-1 Soil Sample Results
Tomahawk Sand & Gravel

nd	Analyzed but not detected
NA	Not analyzed
<.025	Not detected w/method detection limit >cleanup standard
35	Exceeds NR 720 cleanup standards

EXPLANATION

<i>Sample Number</i>	PZ1	PZ1	PZ1	PZ1	PZ1	PZ1	NR 720 Soil Cleanup Standards for Soil with K>10 ⁻⁶ cm/sec
<i>Depth below ground (ft)</i>	4'	14'	27'	35'	45'	55'	
<i>Date Sampled</i>	3/31/03						
<i>Analyte</i>							
GRO (mg/kg)	nd	NA	nd	nd	NA	nd	
DRO (mg/kg)	NA	nd	nd	NA	nd	NA	100
<i>VOCs (in mg/kg)</i>							
Benzene	nd	NA	nd	nd	NA	nd	0.0055
Toluene	nd	NA	nd	nd	NA	nd	1.5
Ethylbenzene	nd	NA	nd	nd	NA	nd	2.9
Total Xylenes	nd	NA	nd	nd	NA	nd	4.1
M/P Xylene	nd	NA	nd	nd	NA	nd	none est.
O-Xylene	nd	NA	nd	nd	NA	nd	none est.
1,3,5-Trimethylbenzene	nd	NA	nd	nd	NA	nd	none est.
1,2,4-Trimethylbenzene	nd	NA	nd	nd	NA	nd	none est.
MTBE	nd	NA	nd	nd	NA	nd	none est.

SOUTH TOMAHAWK AVENUE



DRAWING NO.	96.525L4	DRAWN BY:	KFT	01/25/02	CHECKED BY:		APPROVED BY:		REVISIONS:	ENGINEER	DATE	ENGINEER	DATE
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Table 1:
Tomahawk Sand & Gravel
SURVEY DATA AND WATER LEVEL MEASUREMENTS

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-11	MW-21	PZ-1
PVC Elevation	1453.51	1442.96	1443.81	1444.76	1444.05	1446.76	1462.59	1462.19	1462.27
Well Screen Interval	1440.40-1430.40	1438.35-1428.35	1438.87-1428.87	1438.56-1428.56	1438.98-1428.98	1439.41-1429.41	1443.59-1428.59	1442.19-1427.19	1411.77-1406.77
4/15/03	Depth to GW 17.33	6.13	Note 3	8.85	7.98	11.33	Note 4	26.39	26.50
	GW Elev. 1436.18	1436.83	--	1435.91	1436.07	1435.43	--	1435.80	1435.77
7/16/03	Depth to GW 16.90	6.01	7.40	8.40	7.55	Note 5	Note 4	25.97	26.09
	GW Elev. 1436.61	1436.95	1436.41	1436.36	1436.50	--	--	1436.22	1436.18
11/6/03	Depth to GW 17.53	6.46	7.97	8.98	8.15	Note 4	Note 4	26.51	26.62
	GW Elev. 1435.98	1436.50	1435.84	1435.78	1435.90	--	--	1435.68	1435.65
2/9/04	Depth to GW 17.92	7.34	8.32	9.33	8.54	Note 4	Note 7	26.81	26.92
	GW Elev. 1435.59	1435.62	1435.49	1435.43	1435.51	--	--	1435.38	1435.35
5/6/04	Depth to GW 17.35	6.10	7.88	8.87	8.02	Note 4	Note 4	26.44	26.58
	GW Elev. 1436.16	1436.86	1435.93	1435.89	1436.03	--	--	1435.75	1435.69
8/27/04	Depth to GW 17.96	6.89	8.42	9.42	8.60	Note 4	Note 4	26.95	27.07
	GW Elev. 1435.55	1436.07	1435.39	1435.34	1435.45	--	--	1435.24	1435.20
Max elevation measured	1436.61	1436.95	1436.41	1436.36	1436.50	--	--	1436.22	1436.18
Min elevation measured	1435.55	1435.62	1435.39	1435.34	1435.45	--	--	1435.24	1435.20
Difference between max and min elevations	1.06	1.33	1.02	1.02	1.05	--	--	0.98	0.98

Notes 1. PVC elevations were taken from the closure request submitted to WDNR by Envirogen in Sept., 2002.

2. PZ-1 was installed in March, 2003. It was surveyed in April and tied to MW-21.

3. Well damaged--couldn't sample.

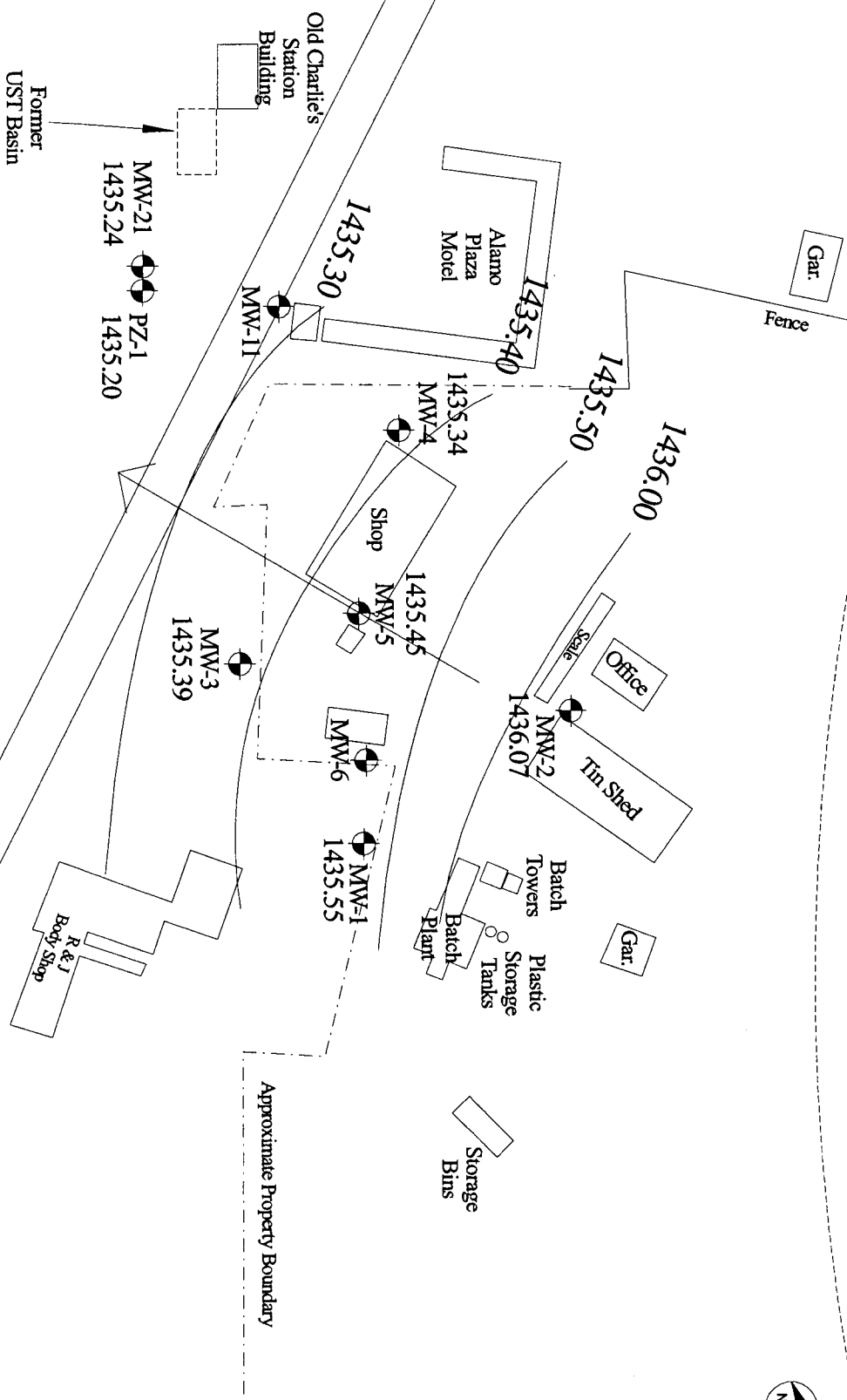
4. Sheen of free product.

5. 2" free product.

6. MW-3 was repaired and resurveyed on 7/16/03.

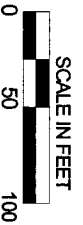
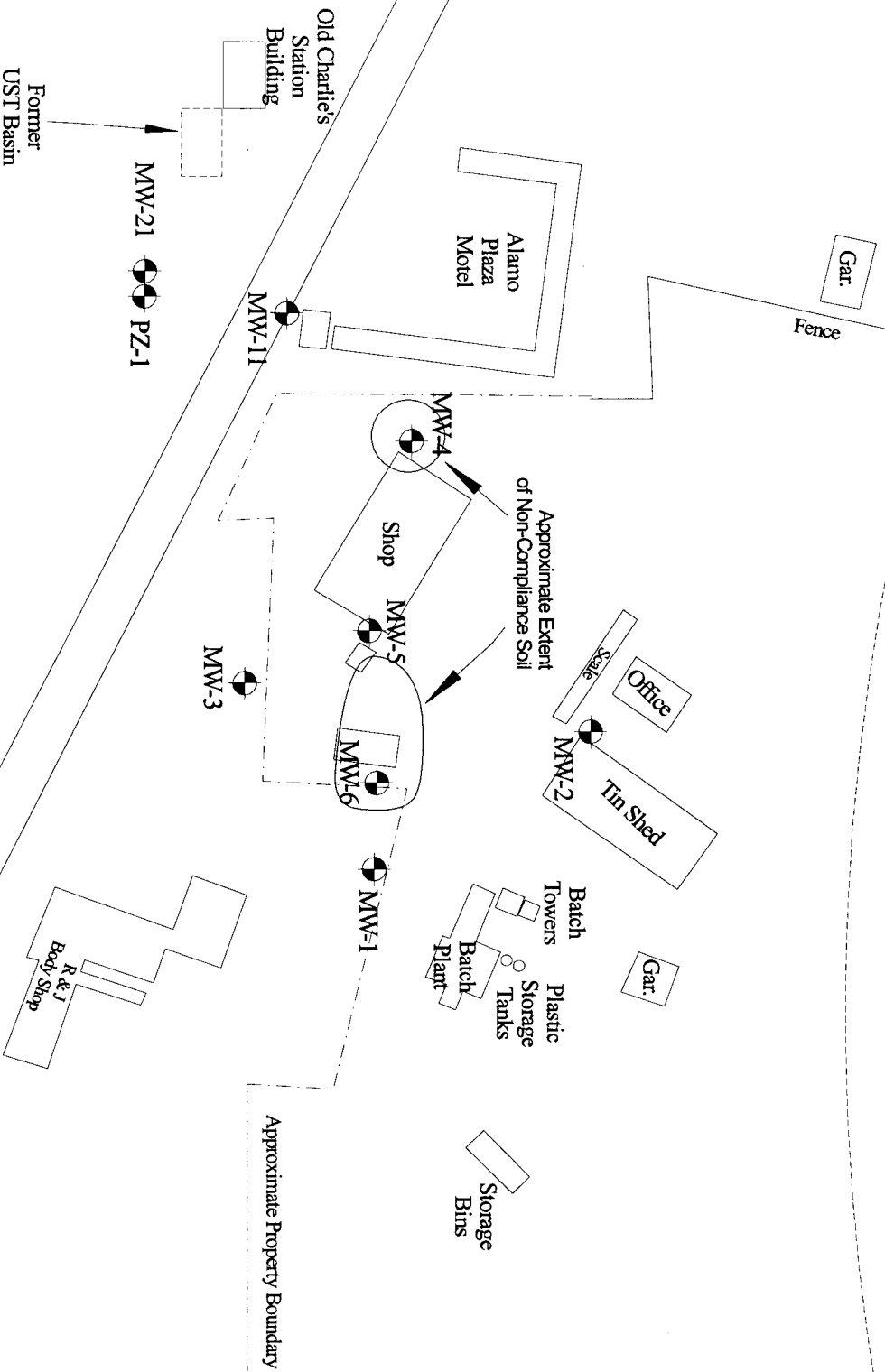
7. Buried under snowbank.


Mariette, Tomahawk & Western Railroad (abandoned)

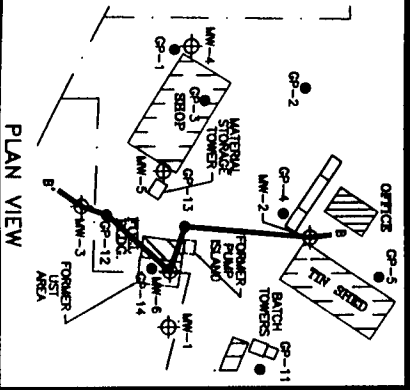
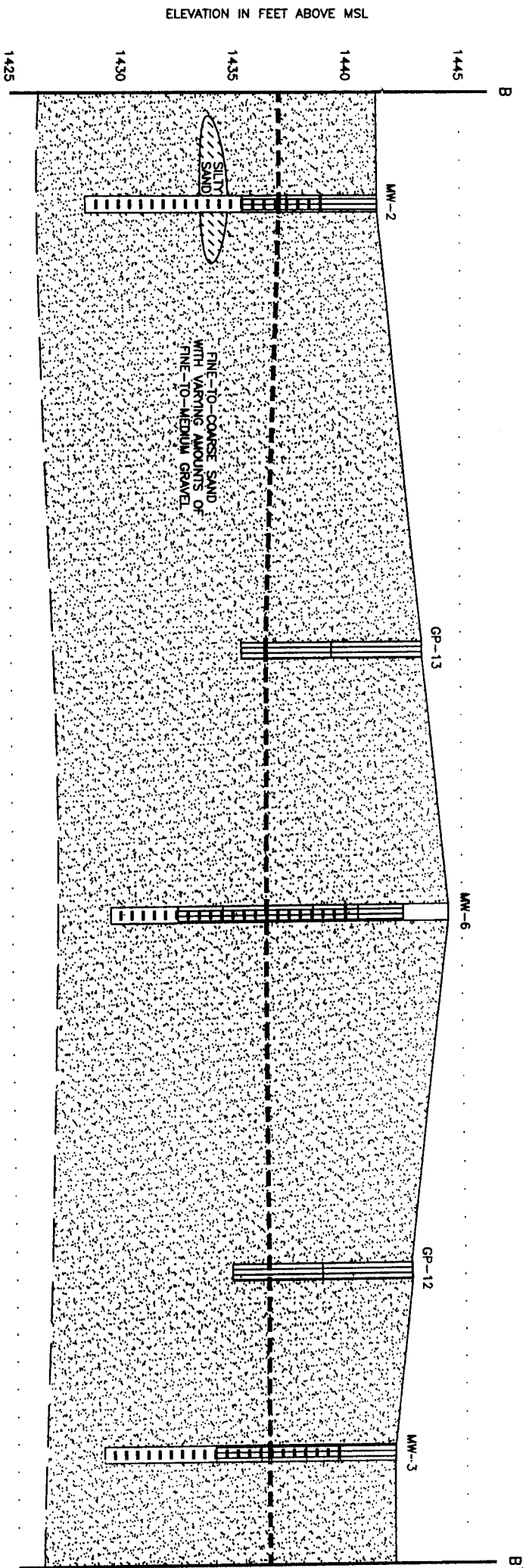


		<p>Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI</p>	
<p>Groundwater Contours</p> <p>August, 2004</p>		<p>Drawn by: RSH</p> <p>Date: 08/03 Modified: 11/04</p>	

Marquette, Tomahawk & Western Railroad (abandoned)



 Tomahawk Sand & Gravel, 407 S. Tomahawk Ave., Tomahawk, WI	Approximate Extent of Non-Compliance Soil	
	Drawn by BSH	Date 08/03 Modified 12/04



PLAN VIEW

- LEGEND
- SCREENED INTERVAL
 - SAMPLE INTERVAL
 - GROUNDWATER TABLE (5/23/97)



SCALE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

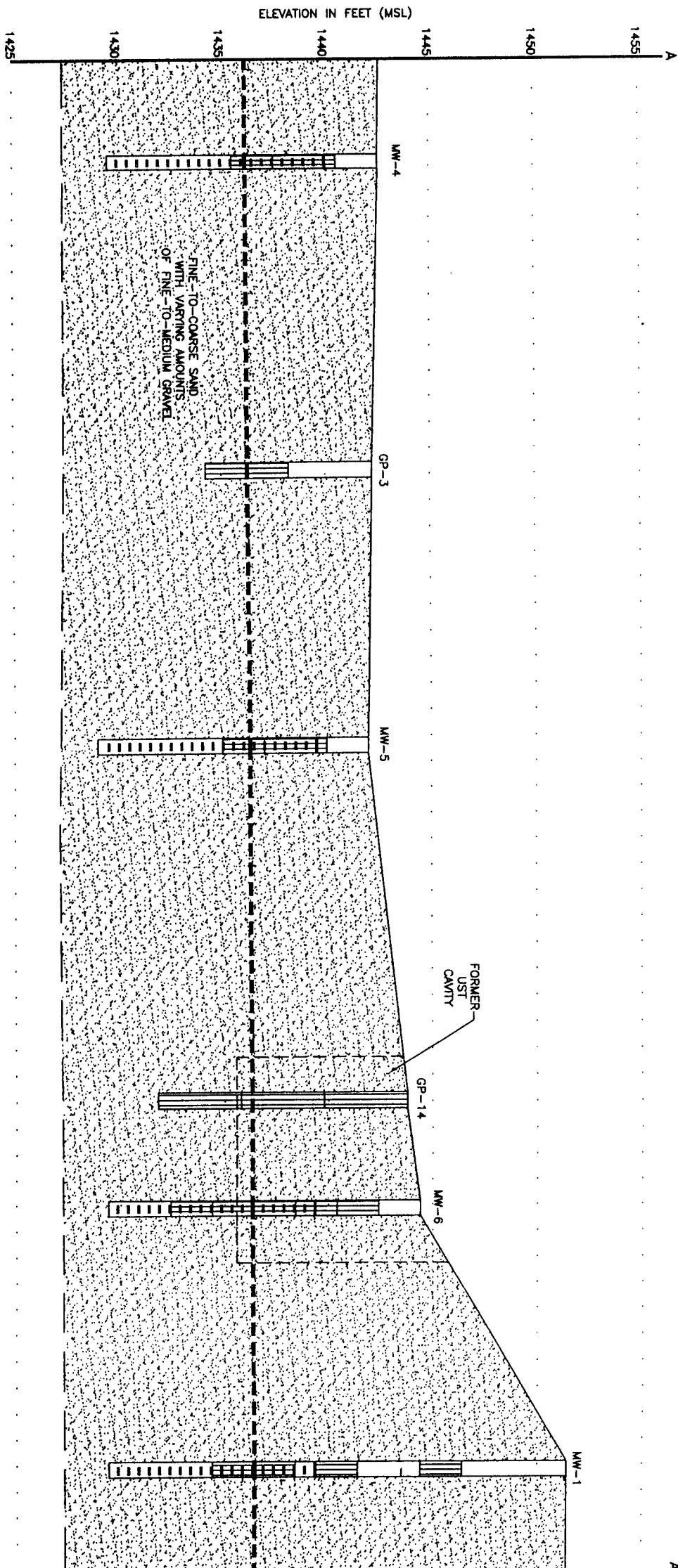
Geologic Cross-Section B-B'
Tomahawk Sand & Gravel Site
Tomahawk, Wisconsin

DRAWING NO. 96.525R7

DRAWN BY: PAO 10/21/97

CHECKED BY:

APPROVED BY:



- LEGEND
- SCREENED INTERVAL
 - SAMPLE INTERVAL
 - GROUNDWATER TABLE (5/23/97)



SCALE

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

Geologic Cross-Section A-A'
Tomahawk Sand & Gravel Site
Tomahawk, Wisconsin

FIGURE NO.

7

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

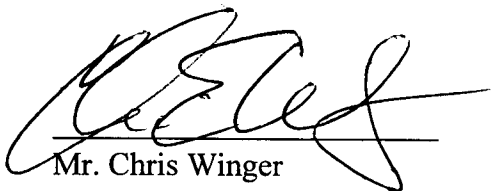
August 13, 2002

Ms. Janet Kazda
Wisconsin Department of Natural Resources
Northern Region
107 Sutliff Avenue
Rhinelander, Wisconsin 54501

**Re: Deed Certification for GIS Registry
Tomahawk Sand and Gravel
407 South Tomahawk Avenue
Tomahawk, Wisconsin 54487
WDNR BRRTS No. 03-35-110597**

To Whom It May Concern:

I, CARLIS ELWINGER, Responsible Party (RP) for petroleum underground storage tank clean up at the Tomahawk Sand and Gravel Site in Tomahawk, Wisconsin, do hereby certify that to the best of my knowledge the legal description included (parcel number 1) for registering this site on the GIS system is complete and accurate.


Mr. Chris Winger

8/14/02
Date

Erica McNally

From: "Erica McNally" <emcnally@envirogen.com>
To: <sharlene.tebeest@dot.state.wi.us>
Sent: Friday, August 23, 2002 10:50 AM
Attach: 6525L3.bak; TomahawkHighwayNotification.doc
Subject: Notification of Contamination in the Right of Way

Dear Ms. Te Beest,

The following attachments include the notification of contamination in the right of way (DOT format) and a groundwater contamination plume figure.

If you have any questions regarding this information, please call me at (262) 549-6898 ext. 406.

Sincerely,
Erica McNally
Technician II Environmental Specialist
Envirogen, Inc.
2835 N. Grandview Blvd.
Pewaukee, WI 53072

8/23/02

Notification of Contamination within the Right of Way

County: Lincoln County
Highway: Business U.S. Highway 51
Site Name: Tomahawk Sand and Gravel
Site Address: 407 South Tomahawk Avenue
BRRTS Number: 03-35-110597
PECFA Number: 55487-1232-07

Owner's Name: Mr. Chris Winger
Owner's Address: 407 South Tomahawk Avenue

Consulting Firm: Envirogen, Inc.
Consultant Contact: Peter Molling
Consultant Address: 850 Highway 153, Suite F, Mosinee, WI 54455
Consultant Phone, Fax and E-mail: Phone: (715) 693-1750 Fax: (715) 693-1766
E-mail: pmolling@envirogen.com

Soil contamination? NO
Depth to contaminated soil: NA
Vertical extent of contaminated soil: (e.g. from _____ feet to _____ feet below ground surface)
NA
Groundwater contamination? YES
Depth to water table: 26 feet below land surface

Describe the type(s) of contamination present.
Approximately 1/8 inch of petroleum free phase product in monitoring well MW-11.

Brief summary of cleanup activity: Free product removal and natural attenuation monitoring.

Attach a current plume map for groundwater contamination (see attached Figure 3)